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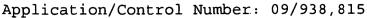
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/938,815	08/27/2001	Young-sig Kwon	1293.1227	1293.1227 1100	
21171	7590 03/01/2004		EXAMINER		
STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			DINH, TAN X		
			ART UNIT	PAPER NUMBER	
			2653	2653	
			DATE MAILED: 03/01/2004	8	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application No.	Applicant(s)		
	• • • • • • • • • • • • • • • • • • •	09/938,815	KWON, YOUNG-SIG		
	Office Action Summary	Examiner	Art Unit		
		TAN X. DINH	2653		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address		
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION. ensions of time may be avaitable under the provisions of 37 CFR 1.13 FIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply poperiod for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed , s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)[🛛	Responsive to communication(s) filed on 12 De	ecember 2003.			
2a)□					
3)	,—				
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.		
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.			
Applicat	ion Papers				
9)[]	The specification is objected to by the Examine	r.			
10)	The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).		
_	Replacement drawing sheet(s) including the correct	· · · · · · · · · · · · · · · · · · ·			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.		
Priority (under 35 U.S.C. § 119				
а)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage		
Attachmen	• •	» —	(070,440)		
2)	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 7.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			





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- 1) The amendment filed 12/12/2003 is acknowledged. New claims 14 and 15 are currently been added.
- 2) The I.D.S filed 12/31/2003 has been considered by the Examiner. However, the Japan and/or foreign document(s), if they have not been written in English, are considered to the extent that could be understood from the English Abstract and the drawings.

Form PTO-1449 is attached herein.

3) The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- 4) (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5) Claims 1-3,8,11,13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by WATANABE (5,499,252).

WATANABE discloses a method for providing sub-code data to a host computer in an optical disk drive as claimed in claims 1,11,13-15, comprising the step of:

setting the sub-code data whenever the data of predetermined unit is output from a buffer (Fig.1, Buffer RAM 18. In this case, the sub-code and TOC information are read and stored in buffer RAM 18. see the abstract);

transmitting the set sub-code data to the host computer when the sub-code data is request from host computer during



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reproduction mode (Fig.1, Host Computer 19. In this case, the sub-code reading circuit 19 fetches the sub-code data every time the sub-code data output from digital signal processing circuit 11, thereafter, the sub-code data read from RAM 18 and transmit to host computer 19 during reproducing mode. See column 5, lines 1-12).

As to claims 2 and 8, WATANABE shows sub-code data include track information, a relative address and an absolute address which determines using TOC information (see column 2, lines 49-53. It is noted that, the sub-code data and TOC information in every optical disk player contains track information (track number), a relative address (minute, second) and an absolute address (time address of entire disc).

As to claim 3, the setting sub-code data whenever data of one sector is output to buffer is inherent in WATANABE's since the sub-code and TOC information are read and stored in buffer together with data information at all times. This process continue from first sector, second sector and to the end of the disk.

- 6) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.



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7) Claims 4-7,9,10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over WATANABE (5,499,252).

WATANABE discloses all the subject matter claimed as in claims 4 and 9, except to specifically show that the compact disc is recorded music (songs). However, the technique of recording music into compact disc is old and well known in the art (it is noted that, the compact disc with recorded music is always contained an absolute address in which the absolute address having information of reproduction time of each song or entire portion of the disc), therefore, to record music (songs) in WATANABE's compact disc as claimed is deem obvious to someone within the level of skill in the art.

As to claim 5, the increasing relative address (time address of each song) and absolute address (time address of entire disc) whenever data of one sector is output from buffer is inherent in WATANABE's since the sub-code and TOC information are read and stored in buffer together with data information at all times, when a new song (increases from last song) is stored in buffer which also stores a new relative address and absolute address (increases from last relative address and absolute address of last song).

As to claim 6, WATANABE discloses all the subject matter as claimed in claim 6, except to specifically show that the CD player capable of resetting the relative address when the last sector is output from buffer. It would have been obvious matter



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of design choice to modify the WATANABE's CD player by resetting the relative address when last sector is output from buffer, since applicant has not disclosed that having this resetting process could solve any stated problem or is for any particular purpose and it appears that the CD player would perform equally well with or without this resetting process.

As to claim 7, since WATANABE shows the optical disk is compact disc (CD, see column 1, lines 25-28) which common uses to storing plurality of music (songs) and the TOC of compact disc always contains the time address information such as reproduction time of each song, the reproduction time of entire disc, etc., thus, to determine a last sector of corresponding song is inherent in WATANABE's CD player.

Claims 10 and 12 add the features of: setting the optical disk drive to temporary pause mode in response to the buffer memory being full and transmitting the sub-code data to host computer when the host computer requests during temporary pause mode to claim 1, which are old and well known in the art as evident in applicant's prior art figure 2, steps 207, 209, 211, 213 and 215.

- 8) Applicant's arguments with respect to claims 1-15 have been considered but are moot in view of the new ground(s) of rejection.
- 9) Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAN X DINH



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whose telephone number is (703) 308-4859. The examiner can normally be reached on Monday-Friday, 8:00AM - 5:30PM.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

TAN DINH
PRIMARY EXAMINER
25 February 2004